

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P248154

Luminaire Tested: **LD8B175D010 ER8B175950 8LBS0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248154
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-94)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B175D010 ER8B175950 8LBS0WH
Description: PORTFOLIO 8 INCH WIDE SHALLOW DISTRIBUTION 75 DEGREE CUTOFF RECESSED
DOWNLIGHT
90 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18813.0 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.23
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

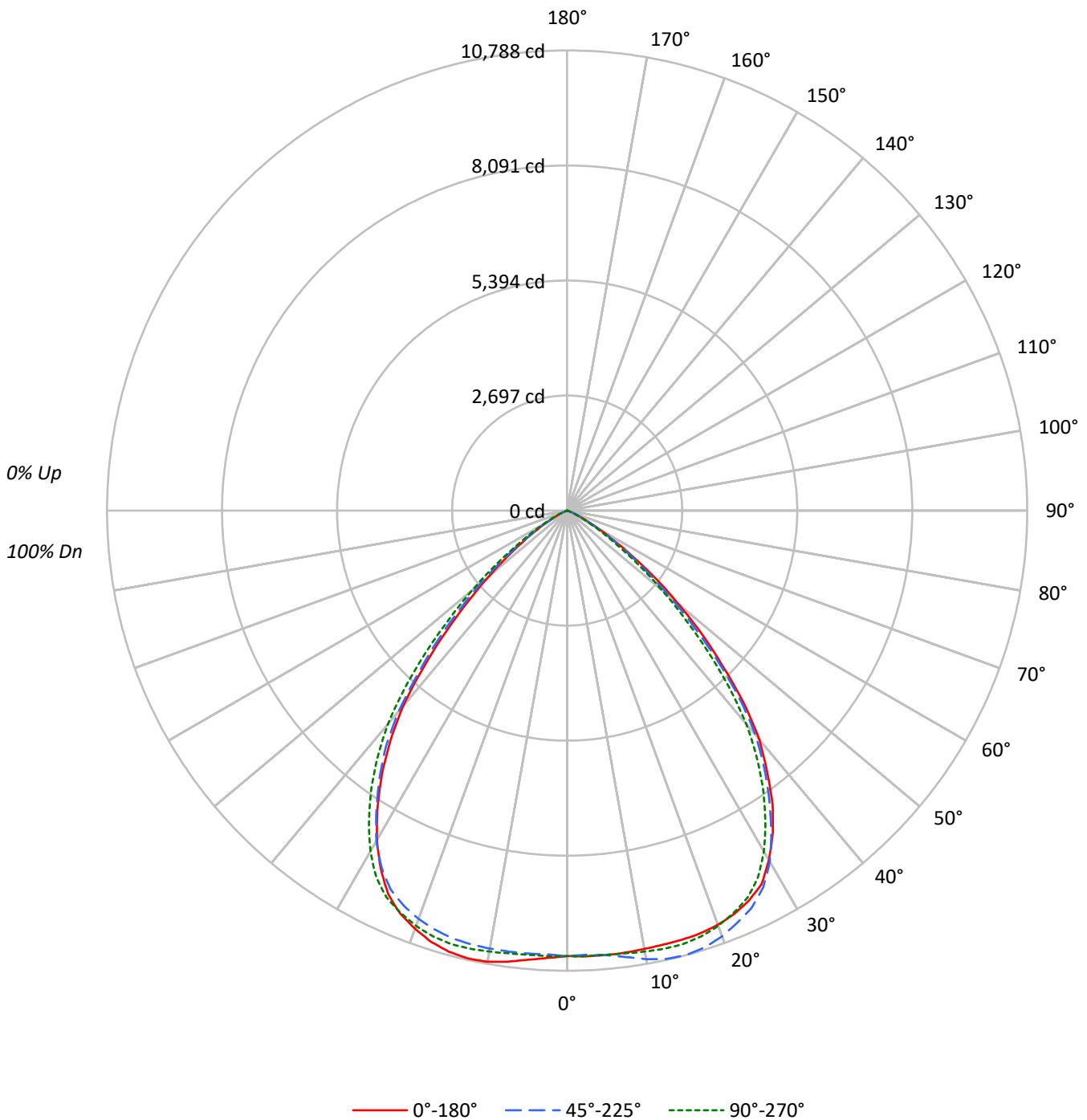
Input Watts (W): 177.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248154

CATALOG NUMBER: LD8B175D010 ER8B175950 8LBS0WH

Luminous Intensity Polar Plot





TEST NUMBER: P248154

CATALOG NUMBER: LD8B175D010 ER8B175950 8LBS0WH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82					82			
3	98	90	84	79	96	89	83	79	86	81	78	84	80	76	81	78	75	73					73			
4	92	82	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66					66			
5	86	75	68	63	84	74	68	63	72	67	62	71	66	62	69	65	61	59					59			
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53					53			
7	75	64	56	51	73	63	56	51	62	55	51	60	55	50	59	54	50	48					48			
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44					44			
9	66	54	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	40					40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	322064	322064	322064
5°	323777	323551	327129
10°	326769	328726	336257
15°	332493	335816	341732
20°	339110	340000	342323
25°	343242	340656	337682
30°	336779	328550	317505
35°	315959	301891	285392
40°	282253	263140	240932
45°	225097	202625	175614
50°	163069	139193	113374
55°	101141	82277	65041
60°	52009	40901	32680
65°	22181	16636	12762
70°	7041	3471	2254
75°	1859	1120	1120
80°	1474	923	746
85°	1097	354	354



TEST NUMBER: P248154

CATALOG NUMBER: LD8B175D010 ER8B175950 8LBS0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1001.4	5.3
10°-20°	2980.6	15.8
20°-30°	4581.4	24.4
30°-40°	4952.5	26.3
40°-50°	3563.7	18.9
50°-60°	1438.0	7.6
60°-70°	276.5	1.5
70°-80°	16.4	0.1
80°-90°	2.3	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	8563.5	45.5
0°-40°	13515.9	71.8
0°-60°	18517.7	98.4
0°-90°	18813.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18813.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	10444	10444	10444	10444	10444	
5°	10460	10463	10453	10422	10568	998
15°	10415	10788	10519	10381	10704	2948
25°	10088	10261	10012	9797	9925	4628
35°	8393	8260	8020	7673	7581	5198
45°	5162	5009	4646	4265	4027	3987
55°	1881	1740	1530	1322	1210	1754
65°	304	310	228	178	175	356
75°	16	12	9	9	9	26
85°	3	2	1	1	1	4
90°	0	0	0	0	0	



TEST NUMBER: P248154

CATALOG NUMBER: LD8B175D010 ER8B175950 8LBS0WH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	10444.3	10444.3	10444.3	10444.3	10444.3	10444.3	10444.3	10444.3	10444.3
2.5°	10459.9	10445.3	10424.5	10423.4	10456.8	10438.0	10415.1	10439.1	10498.4
5°	10459.9	10462.0	10463.0	10453.6	10452.6	10421.4	10422.4	10487.0	10568.2
7.5°	10452.6	10493.2	10556.7	10542.1	10469.3	10400.5	10428.6	10558.8	10667.1
10°	10435.9	10530.7	10676.4	10654.6	10498.4	10381.8	10426.6	10607.7	10738.9
12.5°	10421.4	10551.5	10767.0	10741.0	10522.3	10369.3	10414.1	10614.0	10755.6
15°	10415.1	10555.7	10787.8	10755.6	10519.2	10344.3	10380.8	10568.2	10704.5
17.5°	10392.2	10523.4	10735.8	10696.2	10465.1	10286.0	10301.6	10472.4	10601.5
20°	10333.9	10446.3	10620.2	10566.1	10361.0	10180.9	10186.1	10315.2	10431.8
22.5°	10235.0	10323.5	10449.5	10397.4	10205.9	10042.4	10020.5	10128.8	10226.7
25°	10088.2	10160.0	10261.0	10204.8	10012.2	9845.6	9796.7	9865.4	9924.8
27.5°	9872.7	9897.7	9955.0	9868.5	9690.5	9527.1	9425.0	9435.4	9466.7
30°	9458.3	9499.0	9504.2	9405.3	9227.2	9037.7	8944.0	8892.0	8917.0
32.5°	8971.1	8959.7	8907.6	8787.9	8648.4	8497.4	8320.4	8261.1	8274.6
35°	8393.3	8366.2	8260.0	8145.5	8019.6	7834.2	7672.9	7585.4	7581.3
37.5°	7689.5	7653.1	7583.3	7425.1	7309.5	7153.4	6977.4	6880.6	6807.7
40°	7011.8	6954.5	6872.3	6682.8	6537.0	6319.4	6139.3	6005.0	5985.3
42.5°	6137.3	6109.1	5991.5	5801.0	5618.8	5361.6	5152.4	5039.9	4981.6
45°	5161.7	5161.7	5008.7	4841.1	4646.4	4454.8	4265.4	4097.8	4027.0
47.5°	4288.3	4180.0	4035.3	3856.2	3713.6	3578.2	3377.3	3171.2	3123.3
50°	3399.2	3330.5	3159.7	2989.0	2901.5	2772.4	2614.2	2414.3	2363.3
52.5°	2626.7	2518.4	2370.6	2243.6	2161.3	2060.3	1888.5	1752.2	1726.1
55°	1881.3	1826.1	1739.7	1635.6	1530.4	1424.2	1322.2	1244.1	1209.8
57.5°	1288.9	1270.1	1198.3	1136.9	1034.8	941.1	847.5	822.5	824.5
60°	843.3	842.2	806.8	751.7	663.2	577.8	534.1	521.6	529.9
62.5°	510.1	519.5	510.1	477.9	410.2	344.6	313.4	319.6	314.4
65°	304.0	313.4	310.2	268.6	228.0	199.9	178.0	169.7	174.9
67.5°	177.0	171.8	158.2	138.5	113.5	93.7	79.1	71.8	72.9
70°	78.1	73.9	66.6	51.0	38.5	31.2	26.0	23.9	25.0
72.5°	29.2	28.1	23.9	19.8	16.7	13.5	12.5	12.5	12.5
75°	15.6	14.6	12.5	10.4	9.4	9.4	9.4	9.4	9.4
77.5°	11.5	10.4	9.4	8.3	7.3	6.2	6.2	6.2	6.2
80°	8.3	7.3	6.2	5.2	5.2	4.2	4.2	4.2	4.2
82.5°	5.2	5.2	4.2	3.1	3.1	2.1	2.1	2.1	2.1
85°	3.1	3.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)